MAY, 1903 NUMBER 21

THE UNIVERSITY OF NORTH CAROLINA RECORD

DESCRIBING

THE DEPARTMENT OF MEDICINE.

PUBLISHED BY THE UNIVERSITY.

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THE DEPARTMENT OF MEDICINE.

CHAPEL HILL, N. C.
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1903.

THE UNIVERSITY PRESS
CHAPEL HILL

THE DEPARTMENT OF MEDICINE.

FACULTY.

FRANCIS PRESTON VENABLE, PH.D., PRESIDENT.

RICHARD HENRY WHITEHEAD, A.B., M.D., *Dean of the Department at Chapel Hill and Professor of Anatomy and Pathology.*

CHARLES STAPLES MANGUM, A.B., M.D., *Professor of Materia Medica and Instructor in Anatomy.*

ISAAC HALL MANNING, M.D., *Professor of Physiology and Instructor in Bacteriology.*

HUBERT ASHLEY ROYSTER, A.B., M.D., *Dean of the Department at Raleigh and Professor of Gynecology.*

WISCONSIN ILLINOIS ROYSTER, M.D., *Professor of Medicine.*

AUGUSTUS WASHINGTON KNOX, M.D., *Professor of Surgery.*

RICHARD HENRY LEWIS, A.B., M.D., *Professor of Diseases of the Eye and Lecturer on General Hygiene.*

KEMP PLUMMER BATTLE, JR., A.B., M.D., *Professor of Diseases of the Ear, Nose and Throat.*

JOSHUA WALKER GORE, C.E., *Professor of Physics.*

*HENRY VAN PETERS WILSON, PH.D., *Professor of Biology.*

CHARLES BASKERVILLE, PH.D., *Professor of Chemistry.*

JAMES EDWIN DUERDEN, PH.D., A.R.C.S.(LOND.), *Acting Professor of Biology.*

ALVIN SAWYER WHEELER, PH.D., *Associate Professor of Organic Chemistry.*

WILLIAM CHAMBERS COKER, PH.D., *Associate Professor of Botany.*

ANDREW WATSON GOODWIN, M.D., *Instructor in Physical Diagnosis and Diseases of the Skin.*

HENRY McKEE TUCKER, M.D., *Lecturer on Obstetrics and Diseases of Children.*

JAMES WILLIAM McGEE, JR., M.D., *Chief of Dispensary.*

* Absent on leave, 1902-03.

ROBERT SHERWOOD McGEACHY, A.B., M.D., *Assistant in Surgery and Gynecology.*
*JAMES EDWARD LATTA, A.M., *Instructor in Physics.*
JAMES EDWARD MILLS, PH.D., *Instructor in Chemistry.*
CLARENCE ALBERT SHORE, S.M., *Instructor in Biology.*
WILLIAM DEBERNIERE MACNIDER, *Demonstrator of Clinical Pathology.*
MARSHALL CRAPON GUTHRIE, JR., *Assistant in Anatomy.*
WILLIAM MONCURE, JR., M.D., *Assistant in Dispensary.*
IVEY FOREMAN LEWIS, A.B., *Assistant in Biology.*

FOUNDATION.

Instruction in Medicine is given in two distinct schools, one situated at the seat of the University, the other in the city of Raleigh. The Department at Chapel Hill furnishes thoroughly good instruction in the fundamental branches of Medicine—those branches which constitute the scientific basis of the actual practice of medicine and surgery, which should be taught in the first two years of the medical curriculum. The school possesses exceptional advantages for this work. There is an adequate corps of trained and faithful instructors; there are good laboratories for the various branches of study; the students live in the environment of a University, and enjoy all the advantages it gives to young men; above all, the classes are necessarily small, so that the methods of instruction demanded by modern educational ideals are carried on with comparative ease. Moreover, all the laboratories of the academic department are open to medical students, as well as the courses of instruction offered by the departments of Physics, Chemistry and Biology.

The School has received the endorsement of the State Medical Society. No student who has successfully completed the course has been rejected by the State Board of Medical Examiners, a statement which gains force from the fact that the majority of the subjects upon which that Board conducts examinations are completed by students during their attendance up-

*Absent on leave, 1902-03.

on this School. The School was founded in 1890; in 1898 it was admitted to membership in the Association of American Medical Colleges; recently it has been incorporated as an integral part of the University on the same footing as the graduate and other professional schools.

The instruction of the third and fourth years is conducted at Raleigh with all the hospital and clinical advantages of a city. This School is intended to receive the student after the completion of the course at Chapel Hill in the more fundamental elements of scientific medical education.

THE DEPARTMENT AT CHAPEL HILL.

THE GENERAL PLAN OF INSTRUCTION.

For the course of instruction provided by the Medical School all those advantages are claimed which are derived from good equipment and small classes. Each student has the opportunity of seeing the various demonstrations and experiments, and receives direct personal instruction. The course extends over a period of two College years, and its successful completion entitles students to entrance into the third year of high-grade medical colleges.

In the arrangement of the courses of study the attempt is made to follow what would seem to be their natural sequence. In the first year the student devotes most of his time to anatomical and chemical studies. The study of Gross and Microscopic Anatomy proceed side by side. In the spring, by which time the student has obtained sufficient knowledge of Chemistry and Anatomy, the study of Physiology is begun. In the second year the study of Anatomy and Physiology is continued. The work in Chemistry is laboratory in character, is devoted to Qualitative Analysis, Physiological Chemistry and Toxicology, and continues throughout the year. Pathology is taken up at the beginning of this year, and continued for nine months. Materia Medica is begun in the spring term, after the course in Physiology has been completed. In this year also the class practices the exercises in Minor Surgery.

It is yet necessary to continue courses in Physics and General Chemistry

for the benefit of those students who have not had the advantages of adequate instruction in those subjects; but all are advised to pursue these courses before entering the Medical School. Students who have had courses in Physics and Chemistry are advised to elect General Biology and Embryology during the first and second years of their study of medicine.

The majority of the work in most of the branches is carried on in the laboratories. Lectures are not neglected, and the value of a good text-book is appreciated; but it is deemed very desirable that the student should be brought face to face with nature, so that he will not merely acquire facts, but the powers of observation and judgment so essential to physicians, will be stimulated and encouraged.

The course is arranged in two sessions of nine months each, as follows:—

First Year.

Physics. Three hours a week, fall term.
Chemistry. Fours hours a week throughout the year.
Histology. Five hours a week throughout the year.
Anatomy. Eight hours a week for first seven months.
Physiology. Three hours a week, spring term.

Second Year.

Chemistry. Laboratory work six hours a week throughout the year.
Anatomy. Six hours a week for five months.
Bacteriology. Six hours a week, fall term.
Physiology. Five hours a week, fall term.
Pathology. Eight hours a week, spring term.
Materia Medica. Five hours a week, spring term.
Minor Surgery. Three hours a week for six weeks.

COURSES OF INSTRUCTION.

Physics.

Dr. Mills.

1. Elementary course. The fundamental facts of physics presented, and the general laws illustrated by experiments.

Chemistry.

Professor Baskerville, Dr. Mills and Mr. Davis.

1. General Descriptive Chemistry.

   The elements are taken up in their order and described. This study is followed by the laws of combination and the compounds formed. The latter part of the course is taken up with organic chemistry.

Associate Professor Wheeler and Mr. Davis.

9. Qualitative Analysis and Toxicology. Laboratory work with lectures. Second year, (the first five and a half months).

   This course supplements the lectures given by Professor Mangum on Toxicology.

Associate Professor Wheeler.

10. Physiological Chemistry including Urine Analysis. Lectures and laboratory work. Second year, (the last three and a half months).

Biology.

In the biological courses some record of each day's work is kept by the student. This record consists chiefly of the sketches made directly from the dissection or the preparations under the microscope. The importance of making a figure (even a poor one) of the object under study, cannot be overestimated as an aid to observation. In addition to the usual written examinations, practical examinations on the work done in the laboratory are held.

Professor Duerden.

1. General Biology.

   Representative types of the great groups of organisms are dissected and studied microscopically. The forms range on the one side from the unicellular animals to the vertebrates, and on the other from the unicellular plants to the phanerogams. In the lectures the forms to be studied are briefly described, their relations are pointed out, and the principles which they illustrate are explained. The fundamental facts concerning living things are thus learned directly from nature in such a way as to develop the power of accurate observation, skill in handling instruments, and method in the recording of notes. Elective in the first year.

3. Vertebrate Histology.

   The principal tissues and organs of the vertebrate body are here

studied according to the methods of modern microscopy. The individual student is instructed how to make, study, and sketch microscopic preparations, including paraffin and celloidin sections, macerations, and mounts of fresh tissue.

6. Vertebrate Embryology.

The main facts in the development of a vertebrate animal are here worked out by the student for himself with the aid of explanatory lectures. A brief survey of the early stages of development, including maturation, fertilization, segmentation, and formation of the germ layers is first made upon lower forms (nematode, starfish, teleost, frog). The development of the typical vertebrate organs is then studied in chick embryos. Elective in second year.

Anatomy.

Professors WHITEHEAD and MANGUM and Mr. GUTHRIE.

The method of instruction is one of dissection and demonstration rather than of lectures. In the first year the body is studied by systems, first the bones, then the muscles, etc. The student does much of the dissecting for himself, but the more difficult dissections are made by the instructor. Frequent practical examinations are held, upon which stress is laid, in order to enforce proper study of the cadaver. In the second year the study proceeds by regions. The student does all the dissecting, but is still under the supervision of an instructor, who examines him upon the work done, and indicates the bearing of anatomical facts upon surgical operations. During this year there is a special laboratory study of the anatomy of the central nervous system.

Elective, three hours per week, to Seniors in all Academic courses.

Physiology.

Professor MANNING.

The study of Physiology is begun in the spring term of the first year, instruction being given by means of lectures and recitations illlustrated by experiments. The study is continued in the fall term of the second year, during which the student learns the methods of Experimental Physiology by means of class work in the laboratory.

Elective, one hour and a half per week, to Seniors in all Academic courses.

Materia Medica.

Professor MANGUM.

This Course is devoted to the study of the geographical and botanical sources of drugs, their chemical constitution, preparations and doses, physiological action, and, to some extent, the indications for their rational use. Opportunity will be given to students to familiarize themselves with the more important crude drugs and their preparations. Instruction is given by means of lectures, recitations and demonstrations. The lectures intended to accompany the work in Toxicology are given as a part of the course in Materia Medica.

Pathology.

Professors WHITEHEAD and MANNING.

1. Bacteriology. The student learns by practical experience the methods of cultivating, staining and identifying the principal bacteria, the pathological significance of which is explained by lectures and demonstrated by inoculation of animals. In this way the chief bacteria are studied in pure culture, after which the methods of obtaining pure cultures from mixtures of bacteria are learned. The necessary manipulations are all carried on by the student, who thus obtains a useful practical knowledge of the subject.

2. Pathological Histology. Here the various changes which may be produced in the tissues as the result of disease are discussed in lectures and studied with the microscope. The laboratory is especially well provided with pathological material, and each student stains, mounts and studies a large number of sections extending over almost the whole range of pathology, upon which he is required to stand practical examinations.

Minor Surgery.

Professor MANGUM.

The class practices the application of bandages and the modern methods of dressing wounds.

Elementary Pharmacy.

Professor HOWELL.

An elective course in Pharmacy is offered embracing the simpler pharmaceutical operations.

ENTRANCE REQUIREMENTS.

In accordance with the rules of the Association of American Medical Colleges, of which association this School is a member, students desiring to matriculate will be required, except under the circumstances noted hereafter, to pass the following entrance examination:

1. In English, a composition on some subject of general interest, which must be written by the applicant at the time of examination, and must contain at least two hundred words.

2. In Arithmetic, such questions as will show a thorough knowledge of common and decimal fractions, compound numbers, ratio and proportion.

3. In Algebra, questions covering the fundamental operations, factoring, and simple quadratic equations.

4. In Latin an examination upon such elementary work as the student may offer showing a familiarity usually attained by one year of study.

In place of this examination or any part of it, the official certificates of high schools will be accepted.

Students who are unable to pass the above entrance examinations, may matriculate provided they are not deficient in more than one subject. The deficiencies must be made up before entering the second year. For such deficient students instruction will be provided without additional tuition fees.

PECUNIARY AID.

THE HARRIS PRIZE. (Established in 1895.) Mrs. T. W. Harris offers, in honor of the late Dr. T. W. Harris, a pocket case of instruments to that student who shall make the best grade in Anatomy.

THE WOOD SCHOLARSHIP. (Established in 1895.) Mrs. Mary Sprunt

Wood, of Wilmington, has founded, in memory of her late husband, Dr. Thomas Fanning Wood, a scholarship of the value of ninety dollars.

EXPENSES.

The following are the charges per term payable at the beginning of each term:—

Tuition	$37.50
Registration and incidental fees	10.00

In addition there is a fee of $1.25 for first year students. There are small fees in embryology and histology for those taking these courses.

ADMISSION AND REGISTRATION.

Candidates for admission into the Medical School should present themselves on the same days and at the same hours with candidates for admission into the College. Candidates for admission and students already members of the School are expected to register on *Monday*, *Tuesday*, or *Wednesday*, *September 7*, *8* or *9*, *1903*, and *Saturday*, *Monday* or *Tuesday*, *January 2*, *4* or *5*, *1904*. The session of the Medical School is of the same length as the college year.

All members of the Medical School enjoy the same privileges as other students in the University.

THE DEPARTMENT AT RALEIGH.

LOCATION AND FACILITIES.

The advantages afforded by the city of Raleigh for the advanced work of the University Medical School are numerous. It is the most accessible of the State's larger cities and has already become one of its educational centres. Comprising, with the suburbs, a population of 25,000, it offers

clinical facilities second to none in North Carolina. Two hospitals will admit students of the Medical College for instruction. These hospitals are attended by the Faculty of the College and special care will be given to individual teaching with the varied material found in them. Beside these hospitals, there are many available public institutions which furnish valuable privileges to the students of the University.

The course is arranged for two sessions of nine months each, known as the third and fourth years, as follows:

Third Year.

Medicine. Four hours a week throughout the year.
Surgery. Four hours a week throughout the year.
Obstetrics. Three hours a week throughout the year.
Physical Diagnosis. One hour a week, fall term.
Hygiene. One hour a week throughout the year.
Clinical Pathology. One hour a week throughout the year.
Dispensary. Seven hours a week throughout the year.

Fourth Year.

Medicine. Four hours a week throughout the year.
Surgery. Four hours a week throughout the year.
Gynecology. Two hours a week throughout the year.
Pediatrics. Two hours a week throughout the year.
Diseases of the Eye. Two hours a week throughout the year.
Diseases of the Ear, Nose and Throat. Two hours a week throughout the year.
Dermatology. One hour a week, spring term.
Dispensary. Seven hours a week throughout the year.

These include the weekly clinics and ward classes, by means of which students receive thorough, individual, practical instruction.

COURSES OF INSTRUCTION.

Medicine.

Professor W. I. Royster and Dr. Goodwin.

This subject is taught by didactic lectures, ward classes and general

clinics. The study of Therapeutics is included and instruction in the two subjects is closely combined.

THIRD YEAR. The Infectious Diseases, Diseases of the Blood and the Digestive System.

Special attention is given to individual instruction in the methods of physical diagnosis.

FOURTH YEAR. Diseases of the Respiratory System, Heart and Kidneys. The General Diseases. Diseases of the Nervous System and of the Skin. Weekly clinics and ward classes.

Surgery.

Professor KNOX and Dr. MCGEACHY.

THIRD YEAR. The Principles of Surgery, Wounds, Minor Operations and Bandaging.

Ward classes and Dispensary work will furnish ample demonstrations of the subjects described in the lectures.

FOURTH YEAR. The General Practice of Surgery. The Major Operations. The Genito-Urinary and Venereal Diseases.

At all the clinics students will be able, by direct personal observation at short range, to witness every step of an operation and thus familiarize themselves with the details.

Obstetrics.

Dr. TUCKER, *Lecturer*.

THIRD YEAR. Lectures, recitations and clinical experience. Fundamental obstetric principles receive the closest attention.

A number of maternity cases are available for instructing students in the management of labor and the lying-in period.

Gynecology.

Professor H. A. ROYSTER and Dr. MCGEACHY.

FOURTH YEAR. Lectures covering the entire field of diseases of women

from the simplest procedure to the more serious operations. Illustrative clinics held weekly.

Practice in pelvic examinations will be given constantly to each individual student, with the object of enabling him to make correct gynecological diagnoses.

Diseases of the Eye.

Professor Lewis.

Fourth Year. Lectures with clinics and dispensary classes.

A thorough course is furnished as an absolute essential for the general practitioner. Mastery of the principles is insisted upon. An abundance of illustrative material is presented in clinics and dispensary classes.

Diseases of the Ear, Nose and Throat.

Professor Battle.

Fourth Year. Lectures and demonstrations with opportunities for investigating cases under direct supervision.

A knowledge of these diseases is recognized as necessary for every physician. Particular care is devoted to personal demonstration.

Diseases of Children.

Dr. Tucker, *Lecturer.*

Fourth Year. Lectures and bed-side demonstrations. Special emphasis will be given to the diagnosis and treatment of the infectious diseases and to the care of infants.

General Hygiene.

Professor Lewis, *Lecturer.*

Third Year. The principles and laws of hygiene and sanitation and the most approved practical methods established by modern science.

A knowledge of hygiene and sanitation is very necessary for physicians in every community. Extraordinary oportunities will be given for investigating the workings of sanitary regulations.

THE CITY FREE DISPENSARY.

Dr. McGee, *Physician in Chief.*
Dr. Moncure, *Assistant.*

By special arrangement, the city of Raleigh has allowed the establishment of a Free Dispensary, to which all the outdoor city patients are to come for treatment. Thus every possible case may be utilized as clinical material for students of the University. Here will be found unusual privileges of personal observation. At certain times each student may conduct the dispensary work on his own account under the direction of the instructors.

DEGREE.

The degree of Doctor of Medicine will be conferred by the Board of Trustees upon students who are recommended for graduation by the Faculty. Candidates must have devoted at least four full years to the study of medicine and the fourth year, at least, must have been taken in this school, the other three in this or other recognized schools of medicine. Candidates must have passed satisfactory examinations in all subjects required for the degree.

EXPENSES.

The following are the charges per term, payable at the beginning of each term:—

Tuition	$32.50
Registration	5.00

There are no other fees. Board may be obtained in the city at from $12.50 to $15.00 per month.

ADMISSION.

Students will be admitted to the Medical School at Raleigh upon com-

pletion of the preparatory two years' course at the University, or its equivalent. Preliminary examinations will be required, if deemed necessary.

Students may be admitted to advanced standing who present evidence of having fulfilled the requirements of this School with respect to preliminary education, and of having completed at accredited medical schools satisfactory courses in the studies of the preceding year or years.

REGISTRATION.

Students should present themselves for registration on *Monday, Tuesday* or *Wednesday, September 7, 8* or *9, 1903*, and on *Saturday, Monday* or *Tuesday, January 2, 4* or *5, 1904*.

STUDENTS IN MEDICINE.

Name.	Year.	Residence.
Abernethy, Claude Oliver, S.B., 1902,	*First*,	Chapel Hill.
Belt, Townsend Wentworth,	*First*,	Leesburg, Va.
Berkeley, Green Ramsey,	*First*,	Atlanta, Ga.
Blackwell, Calvin Simeon, Jr..	*First*,	Wilmington.
Bonner, Kemp Plummer Battle,	*Second*,	Aurora.
Brooks, Baird Urquhart, S.B., 1901,	*Second*,	Nashville.
Caveness, Zebulon Marvin,	*Fourth*,	Velna.
Clement, Edward Buehler,	*First*,	Salisbury.
Conwell, Charles Everett,	*Second*,	Chapel Hill.
Cooke, Quinton Henry,	*Second*,	Aulander.
Cranmer, John Bensell,	*Second*,	Chapel Hill.
Dimmette, James Arthur,	*Second*,	Wiles.
Disosway, Alpheus,	*Second*,	Newbern.
Donnelly, John, A.B., 1899,	*Second*,	Charlotte.
Engle, William Royal,	*First*,	Tryon.
Farrar, Mont Royal,	*Second*,	Greensboro.
Farthing, Logan Elmore,	*First*,	Boone.
Fenner, Edwin Ferebee,	*Second*,	Halifax.
Fuller, Robert Walker,	*Second*,	Farmer.
Gibson, John Shaw,	*Second*,	McColl, S. C.
Gibson, Milton Reynolds,	*Second*,	Gibson.
Gilmore, Willis Dowd,	*Fourth*,	Goldston.
Grimes, William Lawrence,	*First*,	Lexington.
Guthrie, Marshall Crapon, Jr.,	*Special*,	Southport.
Harper, James Henry,	*Second*,	Snow Hill.
Harrison, Henry Hill,	*Second*,	Enfield.
Herring, Robert Alexander,	*Second*,	Water Valley, Miss.
Hiatt, Houston Boyd,	*First*,	Clinton.
Hocutt, Battle Applewhite,	*First*,	Ennit.
Hoggard, John Thomas,	*First*,	Aulander.

Hovis, Leighton Watson,	*Second*,	Charlotte.
Irwin, Hamner Carson, Jr.,	*Second*,	Charlotte.
Johnson, Livingston Franklin,	*Second*,	Harrell's Store.
Jones, Harry Murray,	*First*,	Franklin.
Jordan, William Stone,	*First*,	Raleigh.
Kafer, Oswald Ottmar,	*Second*,	Newbern.
Knox, John, Jr.,	*First*,	Pineville.
Kuttner, Theodore,	*First*,	New York City.
Lee, Earle Gordon,	*First*,	Clinton.
McKinnon, Edward Haywood,	*First*,	Rowland.
McLean, Peter,	*First*,	Laurinburg.
MacNider, William DeBerniere,	*Fourth*,	Chapel Hill.
Mann, James Emory,	*First*,	Fairfield.
Marks, Richard Ernest,	*First*,	Corinth.
Matthews, Martin Luther,	*Fourth*,	East Bend.
Merritt, James Hamlett,	*First*,	Bethel Hill.
Moore, Joseph Newit,	*Second*,	Saratoga.
Newell, Leone Burns,	*Second*,	Newell.
Norman, Joseph Hunter,	*Second*,	Halifax.
Outlaw, James Bryan,	*Special*,	Goldsboro.
Parker, John Williams, Jr.,	*Second*,	Morrisville.
Parker, Lester Leonidas,	*First*,	Monroe.
Parrott, Albert DeKalb, Jr.,	*First*,	Kinston.
Patterson, Joseph Flanner,	*First*,	Newbern.
Perry, Henry,	*First*,	Sweet Water.
Plummer, Alson Lindsay,	*First*,	Jones' Mine.
Pritchard, Arthur Thomas,	*Second*,	Marshall.
Rose, Abraham Hewitt,	*First*,	Smithfield.
Ross, John Kirkland,	*Second*,	Charlotte.
Roulhac, William Sterling,	*First*,	Spray.
Saunders, Joseph Hubbard,	*Second*,	Washington.
Sharpe, Frank Louis,	*Third*,	Statesville.
Sheep, William Lloyd,	*First*,	Elizabeth City.
Sherman, Joshua,	*First*,	New York City.
Smathers, John Howell,	*Second*,	Waynesville.
Smith, William Hopton,	*First*,	Goldsboro.

Speight, Joseph Powell,	*First*,	Whitakers.
Stanly, John Haywood, Jr.,	*Third*,	Four Oaks.
Starnes, Brand,	*First*,	Asheville.
Steinen, Edward von den,	*Second*,	Cleveland, O.
Stevens, Ralph Sanders,	*Second*,	Smithfield.
Stone, Sames Albert,	*Second*,	Calabash.
Stringfield, Samuel Lanier,	*Second*,	Waynesville.
Sutton, Carl Whit,	*Second*,	LaGrange.
Tankersley, James William,	*First*,	Salisbury.
Turner, Henry Gray,	*First*,	Raleigh.
Upchurch, Caley Geoffrey,	*First*,	Elm Grove.
Webb, Lorenzo Stevenson,	*Second*,	Wilmington.
Wilkerson, Charles Baynes,	*First*,	Roxboro.
Willcox, Jesse Womble,	*First*,	Putnam.
Williams, John Watkins.	*First*,	Washington.
Wilson, Walter Pleasant,	*First*,	Heareford.
Wyatt, James Leak,	*Second*,	Wadesboro.

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